

## 09670756 Results

SEQ ID NO: 20

## SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	1333	100.0	252	21	AA93471	Amino acid sequenc
2	1309	98.2	270	21	AA93468	Amino acid sequenc
3	1303	97.7	252	21	AA93472	Amino acid sequenc
4	1284	96.3	270	21	AA93470	Amino acid sequenc
5	1277	95.8	252	21	AA93475	Amino acid sequenc
6	1277	95.8	252	21	AA93482	Amino acid sequenc
7	1219	91.4	257	21	AA93469	Amino acid sequenc
8	1191.5	89.4	277	22	AAM78673	Human protein SEQ
9	1135	84.4	220	21	AA93173	Amino acid sequenc
10	1118	83.9	220	21	AA93474	Amino acid sequenc
11	1032	77.4	225	22	AAB92634	Human protein sequ
12	1015	76.1	225	21	AA93476	Amino acid sequenc
13	925.5	69.4	250	21	AA93495	Amino acid sequenc
14	882.5	66.2	233	21	AA93484	Amino acid sequenc
15	876	65.7	229	21	AA93494	Amino acid sequenc
16	837	62.8	256	21	AA93479	Amino acid sequenc
17	831	62.3	188	20	AA42751	Human calcium bind
18	824.5	61.9	256	21	AA93477	Amino acid sequenc
19	821.5	61.6	245	21	AA93463	Amino acid sequenc
20	819.5	61.5	256	21	AA93190	DRE Antagonist Mol
21	819.5	61.5	256	21	AA93198	Mutant DREAM prote
22	816.5	61.3	256	21	AA93199	Mutant DREAM prote
23	815	61.1	216	21	AA93464	Amino acid sequenc

## SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	1301	97.6	270	2	JC7631	K+ channel-interac
2	466	35.0	190	2	I51686	frequenin - Africa
3	438	32.9	190	2	A55666	neurocalcin - frui
4	431	32.3	190	2	S58303	related to neurona
5	431	32.3	191	1	JH0815	neural visinin-lik
6	431	32.3	193	1	JC0186	hippocalcin - huma
7	427	32.0	191	2	JH0605	neural visinin-lik
8	427	32.0	191	2	A46909	visinin-like prote
9	423.5	31.6	220	2	T33465	hypothetical prote
10	423	31.7	193	2	JH0816	neural visinin lik
11	423	31.7	193	2	I50676	gene Rem-1 protein
12	422	31.7	193	2	JH0616	neurocalcin (clone
13	421	31.6	193	2	S47565	calcium binding pr
14	409.5	30.7	254	2	T29566	hypothetical prote
15	409	30.7	195	2	JC1347	hippocalcin - rat
16	405	30.4	190	2	S61168	hypothetical prote
17	389	29.2	165	2	A44103	neurocalcin beta
18	353	26.5	190	2	T20725	hypothetical prote

Result No.	Score	% Match	Query Length	DB	ID	Description
1	831	62.3	254	1	CSEN_MOUSE	Q9qxt6 mus musculu
2	828	62.1	256	1	CSEN_RAT	Q9jw47 rattus norv
3	804.5	61.9	256	1	CSEN_HUMAN	Q9y2w7 homo sapien
4	804	61.9	256	1	CSEN_HUMAN	Q9y2w7 homo sapien
5	804	61.9	256	1	CSEN_HUMAN	Q9y2w7 homo sapien
6	804	61.9	256	1	CSEN_HUMAN	Q9y2w7 homo sapien
7	804	61.9	256	1	CSEN_HUMAN	Q9y2w7 homo sapien
8	804	61.9	256	1	CSEN_HUMAN	Q9y2w7 homo sapien
9	804	61.9	256	1	CSEN_HUMAN	Q9y2w7 homo sapien
10	804	61.9	256	1	CSEN_HUMAN	Q9y2w7 homo sapien

7	450	33.8	190	1	NCS1_CAEEL	P36608	caenorhabdi
8	438	32.9	189	1	NCAH_DROME	P42325	drosophila
9	438	32.9	192	1	HIPP_MOUSE	P32076	mus musculus
10	432	32.4	192	1	NECX_APLCA	Q16982	aplysia cal
11	431	32.3	189	1	NCS1_SCHPO	Q09711	schizosacch
12	431	32.3	190	1	VISI_RAT	P35332	rattus norv
13	431	32.3	192	1	HIPP_HUMAN	P41211	homo sapien
14	429.5	32.2	186	1	FREQ_DROME	P37236	drosophila
15	427	32.0	190	1	VISI_HUMAN	P28677	homo sapien
16	423	31.7	192	1	VISI_CHICK	P42324	gallus gall
17	423	31.7	192	1	VISI_MOUSE	P35333	mus musculus
18	422	31.7	192	1	NECD_BOVIN	P29554	bos taurus
19	421	31.6	192	1	VISI_HUMAN	P37235	homo sapien
20	405	30.4	189	1	NCS1_YEAST	Q06389	saccharomyc
21	389	29.2	165	1	NECB_BOVIN	P29104	bos taurus
22	353	26.5	189	1	NCS2_CAEEL	P36609	caenorhabdi
23	338	25.4	201	1	RECO_MOUSE	P34057	mus musculus
24	327	25.3	201	1	RECO_BOVIN	P21457	bos taurus
25	327	24.5	201	1	SMOD_RANCA	P31227	rana catesb
26	326	24.5	199	1	RECO_HUMAN	P35243	homo sapien
27	314	23.6	203	1	GCA2_BOVIN	P51177	bos taurus
28	304	22.8	197	1	GCA2_CHICK	P79881	gallus gall
29	303	22.7	191	1	VISI_CHICK	P22728	gallus gall
30	299	22.4	205	1	GCIP_RANPI	O73763	rana pipien
31	293	22.0	196	1	GCA2_RANPI	O73762	rana pipien
32	289.5	21.7	199	1	GCA2_HUMAN	Q9umx6	homo sapien

#### SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1333	100.0	252	4	Q9NZI1	Q9nzil homo sapien
2	1309	98.2	270	4	Q96T41	Q96t41 homo sapien
3	1303	97.7	252	11	Q9JI22	Q9ji22 rattus norv
4	1301.5	97.6	285	4	Q96T44	Q96t44 homo sapien
5	1301	97.6	270	11	Q9JM59	Q9jm59 rattus norv
6	1296	97.2	270	4	Q9NS61	Q9ns61 homo sapien
7	1296	97.2	270	11	Q9JJ69	Q9jj69 mus musculus
8	1279	95.9	270	11	Q9JI23	Q9ji23 rattus norv
9	1125	84.4	220	4	Q9HD11	Q9hd11 homo sapien
10	1121	84.1	220	11	Q9JM60	Q9jm60 rattus norv
11	1116	83.7	220	11	Q9JJ68	Q9jj68 mus musculus
12	1112	83.4	220	4	Q9NS60	Q9ns60 homo sapien
13	1111.5	83.4	227	4	Q9HD10	Q9hd10 homo sapien
14	1099	82.4	220	11	Q9JI21	Q9ji21 rattus norv
15	1032	77.4	225	4	Q96K86	Q96k86 homo sapien
16	1024	76.8	225	4	Q9HCN4	Q9hcn4 homo sapien
17	924.5	69.4	250	11	Q99MG9	Q99mg9 rattus norv
18	923.5	69.3	250	11	Q9EQ01	Q9eq01 mus musculus
19	916.5	68.8	250	4	Q9H294	Q9h294 homo sapien
20	867	65.0	216	4	Q9H2A4	Q9h2a4 homo sapien
21	867	65.0	216	11	Q99MG8	Q99mg8 rattus norv
22	852	63.9	284	11	Q99PIO	Q99pio mus musculus

1. NAME: HUMAN  
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 3. NAME: HUMAN  
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 21. NAME: HUMAN  
 22. NAME: HUMAN

```

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
PN [1]
FP SEQUENCE FROM N.A.
FX MEDLINE=98442695; PubMed=9771752;
FA Buxbaum J.D., Choi E.K., Luo Y., Lilliehook C., Crowley A.C.,
FA Merriam D.E., Wasco W.;
FT "Calsenilin: a calcium-binding protein that interacts with the
FT presenilins and regulates the levels of a presenilin fragment.";
FL Nat. Med. 4:1177-1181(1998).
PN [2]
FP SEQUENCE FROM N.A.
PC TISSUE=Caudate,
FX MEDLINE=99176420; PubMed=10078534;
FA Carrion A.M., Link W.A., Ledo F., Mellstrom B., Naranjo J.R.;
FT "DREAM is a Ca2+-regulated transcriptional repressor.";
FL Nature 398:80-84(1992).
PN [3]
FP SEQUENCE FROM N.A.
FX MEDLINE=20140134; PubMed=10676964;
FA An W.F., Bowlby M.R., Betty M., Cao J., Ling H.-P., Mendoza G.,
FA Hinson J.W., Mattson K.I., Strassle B.W., Trimmer J.S., Rhodes K.J.;
FT "Modulation of A-type potassium channels by a family of calcium
FT sensors.";
FL Nature 403 553-556(2000).
CC -- FUNCTION: CALCIUM-DEPENDENT TRANSCRIPTIONAL REPRESSOR THAT BINDS
CC TO THE DRE ELEMENT OF GENES INCLUDING PDYN AND FOS. MAY PLAY A
CC ROLE IN THE REGULATION OF PSEN2 PROTEOLYTIC PROCESSING. MODULATES
CC K4 VOLTAGE-GATED POTASSIUM CHANNELS.
CC -- SUBUNIT: BINDS TO DNA AS A HOMOMULTIMER. ASSOCIATES WITH C-
CC TERMINUS OF PSEN1 AND PSEN2. ASSOCIATES WITH KCN1.
CC -- SUBCELLULAR LOCATION: CYTOPLASMIC. ALSO MEMBRANE-BOUND NUCLEAR
CC (PROBABLE).
CC -- TISSUE SPECIFICITY: HIGHLY EXPRESSED IN BRAIN. WIDELY EXPRESSED AT
CC LOWER LEVELS.
CC -- INDUCTION: AFFINITY FOR DNA IS REDUCED UPON BINDING TO CALCIUM.
CC -- SIMILARITY: CONTAINS 2 EF-HAND CALCIUM-BINDING DOMAINS
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC -----
DE EMBL; AF120102; AAD20350.1; .
DE EMBL; AJ131730; CAB56836.1; .
DE EMBL; AJ131730; CAB56835.1; .
DE EMBL; AF199599; AAF33684.1; .
DE HSSP; P21457; 1REC.
DE MIM; 604662; -.
DE InterPro; IPR002048; EF hand.
DE InterPro; IPR001125; Recoverin.
DE Pfam; PF00036; efhand; 3.
DE PRINTS; PR00450; RECOVERIN.
DE SMART; SMO0054; EFh; 3.
DE PROSITE; P00001; EF HAND 1

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Qy 17 DGSYDQLTGHPGPTKKALKQRFLK -- LLPC-- -- GPQALPSVSENSVDDE 62  
 Db 12 DGSLLGDLGHTPLSKKEGIKWQRPFLSRQALMRCCLVKWILSSTAPQ----GSDSSDSE 66

Qy 63 FELSTVCHRPEGLEQLQEQTKFTRKELQVLYRGFKNECPSGIVNEENFKQIYSQFFPQGD 122  
 Db 67 LELSTVRHQPEGLDQLQAQTKFTKELQSLYRGFKNECPTGLVDEDTFKLIYAQFFPQGD 126

Qy 123 SSTYATFLFNAPDTNHDGVSFEDFVAGLSVILRGTVDDRLNWAFNLYDLNKDGCITKEE 182  
 Db 127 ATTYAHFLFNAPDADGNGAIHFEDFVVGLSILLRGTVHEKLKWFNLYDINKDGYITKEE 186

Qy 183 MLDIMKSIYDMMGKYTPALREEAPREHVESFFQKMDRNKDGVVTTIEEFIESCQKDENIM 242  
 Db 187 MLAIMKSIYDMMGRHTYPILREDAPAEHVERFFEKMDRNQDGVVTTIEEFLEACQKDENIM 246

Qy 243 RSMQLFDNVI 252  
 Db 247 SSMQLFENVI 256

Issued:

Result No.	Score	Query Match	Length	DB	ID	Description	
1	831	62	3	188	3	US-09-048-889-3	Sequence 3, Appli
2	431	32	3	191	3	US-08-655-352-7	Sequence 7, Appli
3	428	32	1	193	3	US-08-655-352-2	Sequence 2, Appli
4	427	32	0	191	3	US-08-655-352-5	Sequence 5, Appli
5	427	32	0	191	3	US-08-655-352-6	Sequence 6, Appli
6	419	31	4	186	3	US-08-655-352-8	Sequence 8, Appli
7	413	31	0	193	3	US-08-655-352-3	Sequence 3, Appli
8	412	30	9	193	3	US-08-655-352-4	Sequence 4, Appli
9	337	25	3	202	1	US-07-804-894-1	Sequence 1, Appli
10	337	25	3	202	1	US-08-419-102-1	Sequence 1, Appli
11	330	24	8	201	1	US-08-820-051-5	Sequence 5, Appli
12	326	24	5	200	1	US-08-820-051-4	

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NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	28	Oct 21	EVENTLINE has been reloaded
NEWS	29	Oct 24	BEILSTEIN adds new search fields
NEWS	30	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	31	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	32	Nov 18	DKILIT has been renamed APOLLIT
NEWS	33	Nov 25	More calculated properties added to REGISTRY
NEWS	34	Dec 02	TIBKAT will be removed from STN

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AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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NEWS INTER	General Internet Information
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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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FILE 'BIOSIS' ENTERED AT 10:31:43 ON 13 DEC 2002

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=> betty maria /au

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"HELP COMMANDS" at an arrow prompt (=>).

=> s betty maria /au

L2 20 BETTY MARIA

=> s an wengian /au

L3 13 AN WENQIAN

=> s ling huai-ping /au

L4 15 LING HUAI-PING

=> d l1 total ibib

DOCUMENT NUMBER: SPEV200200282962  
TITLE: Potassium channel interactors and uses therefor.  
AUTHOR(S): Rhodes, Kenneth; Betty, Maria (1); Ling, Huai-Ping; An, Wengian  
CORPORATE SOURCE: (1) Moorestown, NJ USA  
ASSIGNMENT: Millenium Pharmaceuticals, Inc., 1000 American Road, Suite 100, Millenium, MA 01862  
PATENT INFORMATION: US 6369197 April 24, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark

Office Patents, (Apr. 9, 2002) Vol. 1257, No. 2, pp. No  
Pagination. <http://www.uspto.gov/web/menu/patdata.html>.  
e-file.

ISSN: 0098-1133.

DOCUMENT TYPE: Patent  
LANGUAGE: English

L1 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
ACCESSION NUMBER: 2002:279730 BIOSIS  
DOCUMENT NUMBER: PREV200200279730  
TITLE: Nucleic acid molecules encoding potassium channel  
interactors and uses therefor.  
AUTHOR(S): **Rhodes, Kenneth (1)**; Betty, Maria; Ling,  
Huai-Ping; An, Wenqian  
CORPORATE SOURCE: (1) Neshanic Station, NJ USA  
ASSIGNEE: Millennium Pharmaceuticals, Inc.; American Home  
Products Corporation  
PATENT INFORMATION: US 6361971 March 26, 2002  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Mar. 26, 2002) Vol. 1256, No. 4, pp. No  
Pagination. <http://www.uspto.gov/web/menu/patdata.html>.  
e-file.  
ISSN: 0098-1133.

DOCUMENT TYPE: Patent  
LANGUAGE: English

L1 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2002:256471 CAPLUS  
DOCUMENT NUMBER: 136:290804  
TITLE: Proteins interacting with potassium channel proteins  
identified in two-hybrid systems  
INVENTOR(S): **Rhodes, Kenneth**; Betty, Maria; Ling,  
Huai-Ping; An, Wenqian  
PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA  
SOURCE: PCT Int. Appl., 259 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026984	A2	20020404	WO 2001-US30463	20010927
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CP, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HP, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TP, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, FG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DF, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,			

2002 256471 A 20020404  
WO 2001 US30463 A 20010927

L1 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2002:236430 CAPLUS  
DOCUMENT NUMBER: 136:290804  
TITLE: Proteins interacting with potassium channel proteins  
identified in two hybrid systems  
INVENTOR(S): **Rhodes, Kenneth**; Betty, Maria; Ling,

Patent Assignee(s):           Huai-Ping; An, Wenqian  
Source:                        Millennium Pharmaceuticals, Inc., USA; American Home  
                                  Products Corporation  
Document Type:                U.S., 162 pp., Cont.-in-part of U.S. Ser. No. 350,614.  
Language:                      CODEN: USXXAM  
Family Acc. Num. Count:       Patent  
Patent Information:            English  
                                  2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6361971	B1	20020326	US 1999-399913	19990921
US 6369197	B1	20020409	US 1999-298731	19990423
US 2002019020	A1	20020214	US 1999-350874	19990709
WO 2000031133	A2	20000602	WO 1999-US27428	19991119
WO 2000031133	A3	20001005		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1131349	A2	20010912	EP 1999-972644	19991119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9915513	A	20020205	BR 1999-15513	19991119
JP 2002530104	T2	20020917	JP 2000-583959	19991119
NO 2001002471	A	20010718	NO 2001-2471	20010518
PRIORITY APPLN. INFO.:				
US 1998-109333P P 19981120				
US 1998-110033P P 19981125				
US 1998-110277P P 19981130				
US 1999-298731 A2 19990423				
US 1999-350614 A2 19990709				
US 1999-350874 A2 19990709				
US 1999-399913 A2 19990921				
US 1999-400492 A2 19990921				
WO 1999-US27428 W 19991119				
REFERENCE COUNT:	50	THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L1 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS  
Accession Number:           2000:368431 CAPLUS  
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Patent Assignee(s):        Millennium Pharmaceuticals, Inc., USA; American Home Products Corporation  
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